State Highway Patrol Mapping Tool



TRAINING MANUAL

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Introduction

The Highway Patrol Mapping Tool has recently been updated. It is now more user friendly when looking for crash locations. Some of the features consist of easier zooming into a particular location, having the longitude and latitude in the look-up box, and the ability to have the Emergency Reference Markers (ERMs) displayed on the map.

The web pages will appear different but will function in the same way.

Getting Started

To start working with the HP Mapping Tool, to locate the application on the Missouri Department of Transportation Home Page.



- ➤ Under "News & Information", a drop-down list will appear.
- From the list, choose "More News & Information".

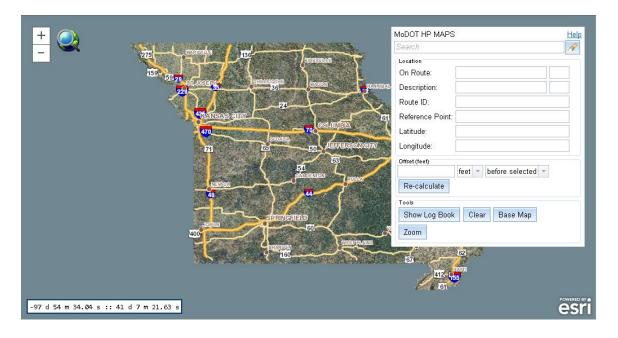


> Scroll through the web page to the find "General" heading.



Under the "General" heading, choose "State Highway Patrol Mapping Tool".

The following web page will be displayed.



MoDOT HP MAPS Dialog Box

Search Dialog Box

To find a travelway, click on any of the travelways or use the search box. The samples below indicate what text should be entered in the search box when searching by route, latititude/longitude or travelway ID.

Example: Road name

- ➤ Interstate 44: "IS 44"
- ➤ US 54 West in Cole County: "US 54 W COLE"
- > Route T: "RT T"

Example: Travelways around a latitude/longitude

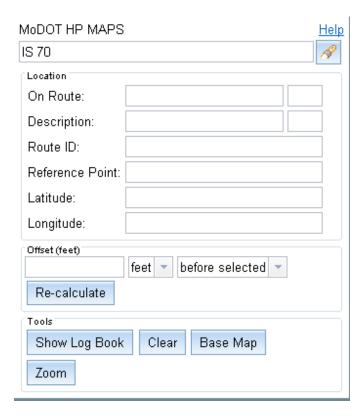
- Latitude 38.1, Longitude -91.2: "38.1 -91.2"
- Latitude 38.1, Longitude -91.2: "-91.2 38.1"

Example: Travelway ID

- > Travelway ID 19: tw 19
- > Travelway ID 19: twid 19
- > Travelway ID 19: travelway 19

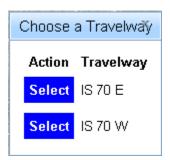
Roadway Name

As you can see from the previous page, there are several ways to enter information into the search box. To search by roadway name, enter "IS 70" the search box.



- > Type "IS 70" put a space between the "S" and the "7" or you will get a listing for ramps.
- Press the "Enter" key on your keyboard.

The following dialog box will be displayed.



- Click the "Select" button next to the travelway to be displayed.
- For this example, choose IS 70 E.

The following results will be displayed.



The entire route of IS 70 is indicated by the red line on the map.

Another way to search for a travelway is to drill down closer to a specific area.

- Click on the "Clear" button on the search dialog box to prepare for a new search.
- ➤ In the search box, enter "US 54 W Cole" make sure there are spaces between the designation, name, direction and county.
- > Press the "Enter" key on the keyboard.

MoDOT HP MAPS Help
us 50 w cole
Location
On Route:
Description:
Route ID:
Reference Point:
Latitude:
Longitude:
Offset (feet)
feet v before selected v
Re-calculate
Tools
Show Log Book Clear Base Map
Zoom

The following results will be displayed.

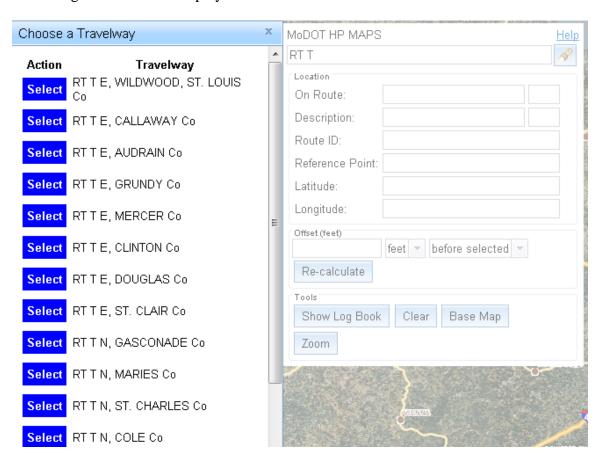


As you can see, US 54 W in Cole County is highlighted in red.

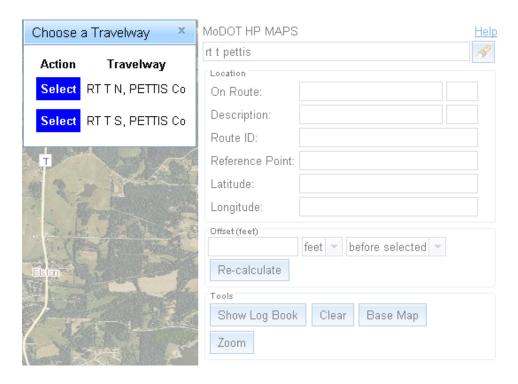
Here's an example of how to search for a lettered route.

- Click on the "Clear" button on the search dialog box.Enter "RT T".
- > Press the "Enter" key on your keyboard.

The following results will be displayed.



As you can see on the "Choose a Travelway" box, every county with a RT T is displayed. Since there are many RT Ts within the state, the counties have been added for easier look up. Minimize the list by entering the county name in the search box.



Both directions appears for RT T in Pettis County.

> Select the desired direction, and the travelway will be highlighted in red in Pettis County.

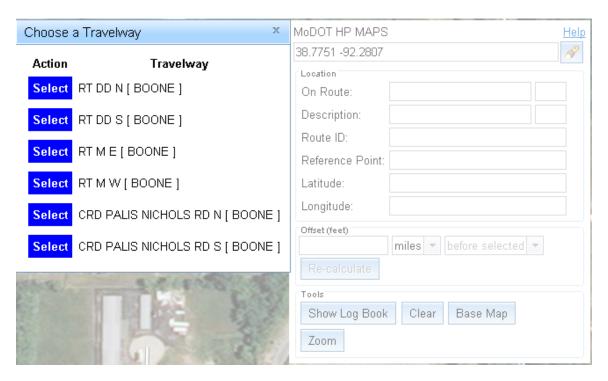


Travelway Near a Longitude and Latitude

You can also search for a location by entering latitude and longitude.

- Click the "Clear" button on the search page.
- Enter the longitude and latitude in the search dialog box.
 - o Latitude 38.7751, Longitude -92.2807: "38.7751 -92.2807"
 - o Latitude 38.7751, Longitude -92.2807: "-92.2807 38.7751"
- Press the "Enter" key on your keyboard.

The longitude and latitude can be entered in any order.



By picking the longitude and latitude, you can see that six travelways in Boone County are displayed.

➤ Select the Travelway CRD PALIS NICHOLS RD S in Boone County.

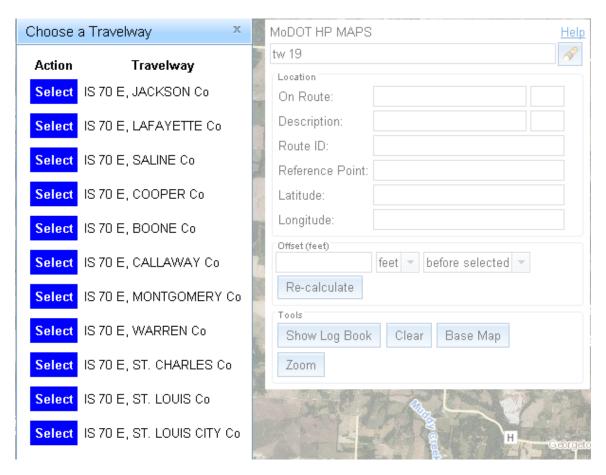
The following map will be displayed.



Travelway ID

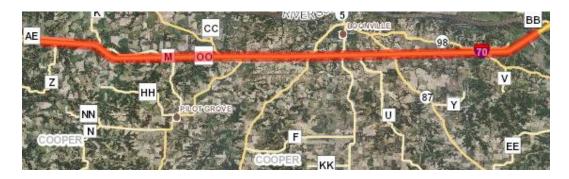
A third way to search for a location is to search by travelway ID. If the travelway ID is known, enter it into the system using one of the three ways listed below.

- Click on the "Clear" button to clear the search dialog box.
- > Enter the travelway ID.
 - o Travelway ID 19: tw 19
 - o Travelway ID 19: twid 19
 - o Travelway ID 19: travelway 19
- Press the "Enter" key on your keyboard.



As you can see, IS 70 E is listed by county. Select the desired county, and the travelway will be highlighted in red for that county. For this example, select IS 70 E in Cooper County.

Click the "Select" button next to IS 70 E, Cooper County.



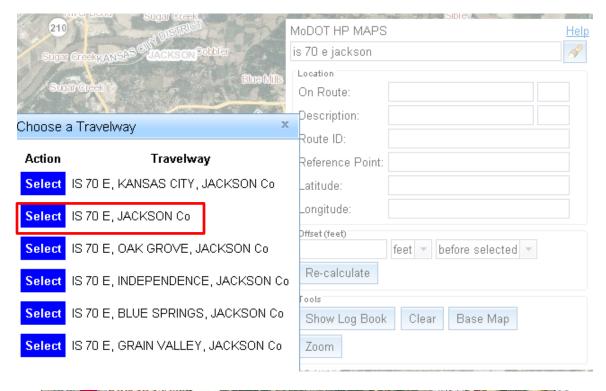
The route for IS 70 E in Cooper County is highlighted in red.

NOTE: In the search box, the travelway information is not case sensitive. This allows you to enter the travelway information in any format (for example, is 70 e or IS 70 E). Also, press the "Clear" button to perform a new search.

Show Log Book

After locating the travelway where the crash occurred, use the "Show Log Book" button to see all the intersecting streets and bridges for that travelway.

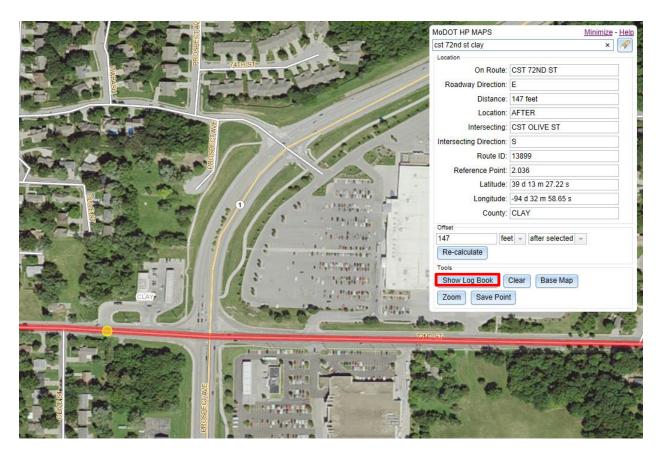
- Clear the search box.
- Enter the search criteria (see below).
- > Press the "Enter" button on the keyboard the map shows the route highlighted in red.
- ➤ The "Choose a Travelway" dialog box will be displayed press the "Select" button next to IS 70 E, Jackson County.
- Click on the "Show Log Book" button.

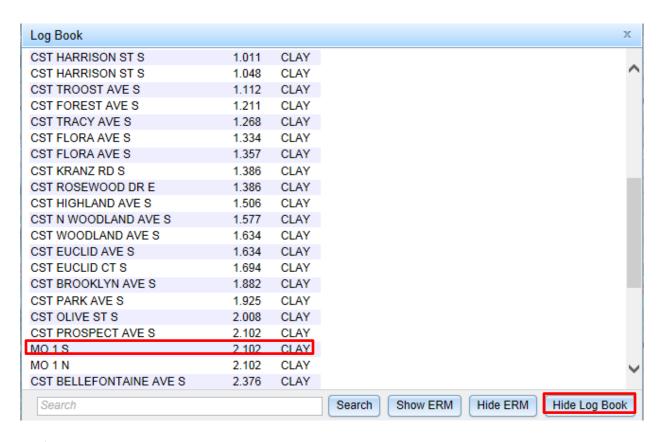




Once you click on the map, if the intersection closest to the crash is not the intersection you wish to reference, use the "Show Log Book" button to display all of the available intersections. For example, a crash happened on CST 72ND St., and it automatically entered the intersection of CST Olive St. Use the "Show Log Book" button to pick the intersection that best meets the needs of

your situation, such as MO 1 South. You can also use the offset field to adjust the crash location as needed.





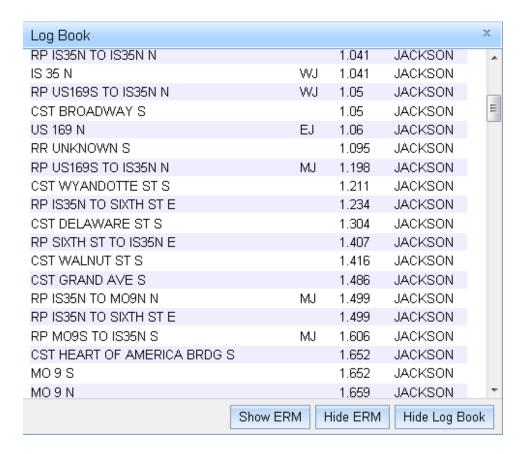
- Select the correct route.
- Close the "Log Book" by clicking the "Hide Log Book" button.



Choosing an Intersection

Click on an intersecting street to select it, and a yellow dot will appear on the map for that location.

- Scroll through the intersections and bridges in the listing.
- > Select the intersection –MO 9 S.



All of the intersections and bridges are listed. Use the scroll bar to see all of the intersections and bridges for Jackson County.

Log Book				Х
IS 35 N	WJ	1.041	JACKSON	
RP IS35N TO IS35N N		1.041	JACKSON	
RP US169S TO IS35N N	WJ	1.05	JACKSON	
CST BROADWAY S		1.05	JACKSON	=
US 169 N	EJ	1.06	JACKSON	
RR UNKNOWN S		1.095	JACKSON	
RP US169S TO IS35N N	MJ	1.198	JACKSON	
CST WYANDOTTE ST S		1.211	JACKSON	
RP IS35N TO SIXTH ST E		1.234	JACKSON	
CST DELAWARE ST S		1.304	JACKSON	
RP SIXTH ST TO IS35N E		1.407	JACKSON	
CST WALNUT ST S		1.416	JACKSON	
CST GRAND AVE S		1.486	JACKSON	
RP IS35N TO MO9N N	MJ	1.499	JACKSON	
RP IS35N TO SIXTH ST E		1.499	JACKSON	
RP MO9S TO IS35N S	MJ	1.606	JACKSON	
MO9S		1.652	JACKSON	
CST HEART OF AMERICA BRDG S		1.652	JACKSON	
MO 9 N		1.659	JACKSON	+

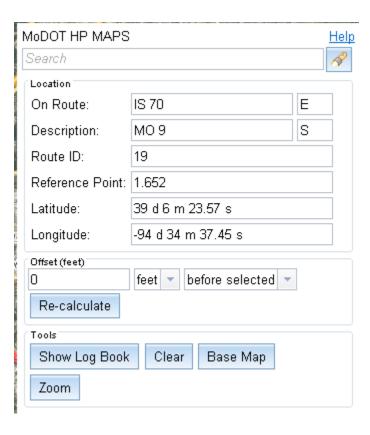
A black line will appear underneath the intersection when hovering over it before selecting.

- Click on the intersection.
- ➤ Click the "Hide Log Book" button.

There will be a yellow dot where "IS 70 E" crosses "MO 9 S".

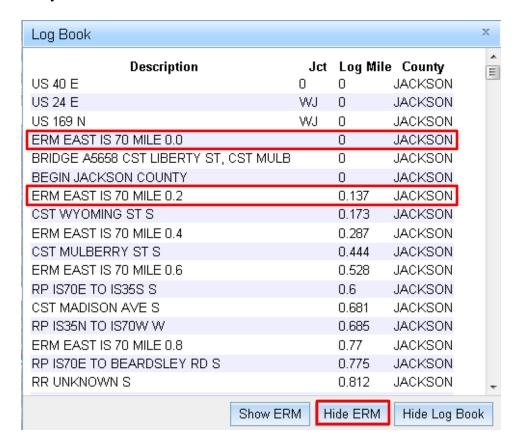


The "MoDOT HP MAPS" dialog box will be filled out with the information pertaining to that location.



Show ERM

MoDOT has ERMs located on all interstates and a few US travelways. To see the ERMs for a route, click the "Show ERM" button. After clicking on the button, the ERMs will be listed. They are located every 0.2 mile.



Hide ERM

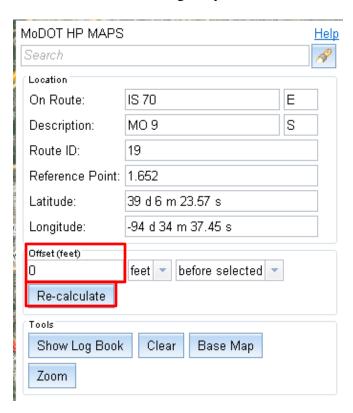
To turn off the ERMs, just click the "Hide ERM "button, and they will be removed from the intersecting list.



Offset

A crash may not have occurred directly at an intersection. Use the "Offset" dialog box to locate the crash in the correct location.

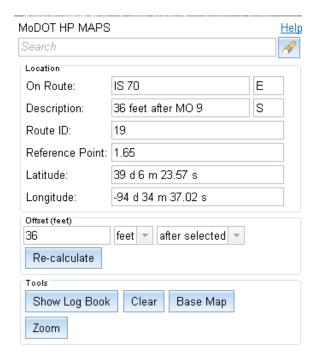
For example, here is the intersection that was originally located.



For this example, the crash occurred 36 feet after MO 9 S.

- ➤ Enter "36" in the "Offset" box there will be an option for feet or miles.
- ➤ In the drop-down box choose "after selected",
- Click the "Re-calculate" button.

The new calculations of the crash location are shown below.



Base Map

The "Base Map" button on the "MoDOT HP MAPS" window is used to change the look of the map. The default map shows the roads with aerial photography in the background.



When clicking on the Base Map, the aerial photography is turned off.

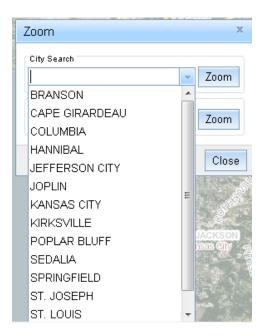


Zoom Button

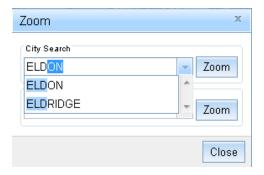
A "Zoom" button has been added to the main panel. The "Zoom" button will display two dialog boxes: "City Search" and "County Search".

City Search

When clicking on the drop-down arrow next to the "City Search", only the most populous cities and a few more key areas around the state are displayed. The reason for the limited number of cities is because there are too many to list in the drop-down box.



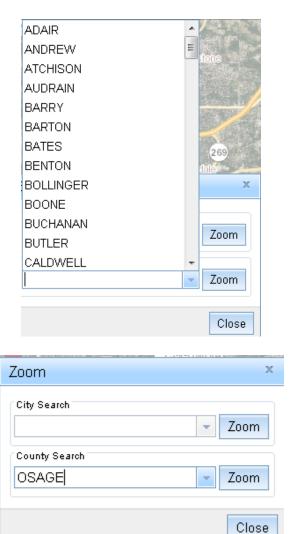
When you begin typing a city, most any city in Missouri ("Eldon", for instance), it will search for that city and auto-complete the name.



After selecting a city, click the "Zoom: button, and it will zoom to that area.

County Search

All counties will be shown when clicking the county drop-down arrow. There's also the option of typing a county name.



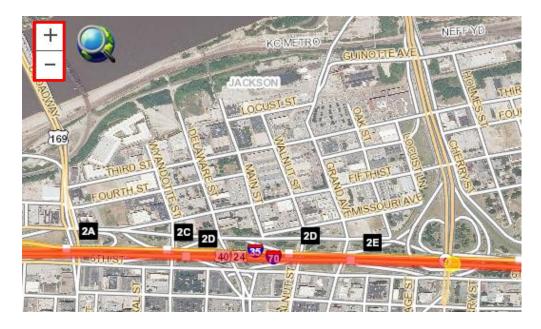
After selecting the county, click the "Zoom" button, and it will zoom to that area.

NOTE: To clear the city or county search, just put the cursor at the end of the city or county and click the "Backspace" key or highlight the name and click the "Delete" key.

Zooming/Moving Map

In order to move the map to get a better view of the crash location, left click the mouse button, and a quad arrow will appear. You can drag the arrow in any direction, and the map will move in the direction that you drag the mouse.

You can zoom to a location in three ways. The first way is to use the zoom in button (+) on the map.



- Click on the plus button, and the map will automatically zoom in to the location.
- Click on the minus button, and the map will automatically zoom out of the location.

The second way to zoom into the crash location is by holding down the "Shift" key and drawing a box around the area with the left mouse button.

The third way is to double click to zoom in.



- This button zooms to a state level view.

NOTE: Zoom to a certain level in order to see the exit numbers.

Contacts:

TMS Help Desk:

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